

## SECTION 1102—SIGN LIGHTING

### 1102.01 GENERAL REQUIREMENTS—[Section 1101.01](#)

### 1102.02 LUMINAIRES—

(a) **Light Fixture.** Furnish a mercury vapor light fixture having:

- An aluminum mounting bracket, when specified.
- Positive door closure by use of stainless steel latches and hinges.
- Cast aluminum housing and door assembly.
- A refractor and door assembly with nonpermanent-set gasket material.
- Thermal and shock resistant borosilicate glass refractor.
- Weep holes in the lowest area of the luminaire housing bottom when mounted.
- Polished aluminum reflector.
- Conduit entries in the luminaire assembly.
- Constant-wattage ballast, either integral or remote mounted.

Furnish luminaires of one of the following types, or equal:

- Holophane PANL XXX MV MT N D G with mounting bracket #4 BOLT.
- General Electric V2FSXXCOC1SSN4GR with photometric 35-178374 and mounting plate MP-V2FS.
- Crouse-Hinds Type SLS with remote ballast or Type ISL with integral ballast. Mount Type SLS luminaire on a 35 mm (1 1/4-inch) diameter conduit with locking set screw. Mount Type ISL luminaire with appropriate mounting plate to twin angles. Remove drain screw in bottom of reflector.

(b) **Mercury Vapor Lamps.** Furnish 175 W or 250 W deluxe white lamps, as indicated, with a minimum rated life of 24 000 hours.

(c) **Ballasts.** Furnish 120/240 V, 60 Hz ballasts, as follows:

- Weatherproof, UL approved, constant wattage type; to operate a mercury vapor lamp.
- With a power factor of not less than 90%, providing lamp starting down to -29 C (-20F) ambient temperature.
- With starting line current not to exceed the operating current.
- With lamp wattage change not to exceed  $\pm 5\%$  with  $\pm 10\%$  input voltage variation.

**(d) Fittings.** Furnish:

- Washers to level and adjust the luminaires on the supports, and made of the same material as the supports.
- Fittings at the entry into the luminaires made of a standard, factory-made, watertight design.

**1102.03 CIRCUIT BREAKERS, PANELS, AND ENCLOSURES**—Furnish the following:**(a) Circuit Breakers.** [Section 1101.11\(h\)](#)**(b) Circuit Breaker Panels.** [Section 1101.11\(i\)](#)**(c) Enclosures.** [Section 1101.11\(c\)](#) and as follows:

Provide enclosures with dimensions that provide code clearance and wiring space for the specified control apparatus.

**1102.04 CONTROLS**—Furnish the following controls:**(a) Photoelectric Control Device.** [Section 1101.11\(b\)](#)**(b) Control Contactor.** Magnetic control contactor, 600 V, two-pole, 60 A, with a 120 V or 240 V operating coil.**(c) Selector Switch.** [Section 1101.11\(g\)](#)**1102.05 LIGHTNING ARRESTER**—[Section 1101.11\(e\)](#)**1102.06 JUNCTION BOXES**—[Section 1101.10](#):**1102.07 CABLE**—[Section 1101.08](#) and as follows:

Provide Type TC, Tray Cable, with XHHW insulation and a PVC jacket, for cable from the sign enclosure to the luminaire.

**1102.08 CONDUIT**—[Section 1101.09](#)**1102.09 MISCELLANEOUS MATERIAL**—[Section 1101.12](#) and as follows:**(a) Service Poles.** [Section 1101.11\(a\)](#)**(b) Ground Rod.** [Section 1101.11\(j\)](#)**(c) Guy Anchor Assembly.** [Section 1101.11\(m\)](#)

**(d) Fittings.** Provide standard, factory-made, watertight fittings at enclosures, junction boxes, conduits, and service heads.